Brief Resume of Andrew C. Kadak, Ph.D.

Professor of the Practice
Massachusetts Institute of Technology
Nuclear Engineering Department

Education:

Massachusetts Institute of Technology
- Ph.D., Nuclear Engineering - Reactor Physics (1972)
- M.S., Nuclear Engineering (1970)

Northeastern University - M.B.A. (1983)
Union College - B.S., Mechanical Engineering (1967)

Dr. Kadak is a Professor of the Practice in the Nuclear Engineering Department of the Massachusetts Institute of Technology. His research interests include the development of advanced reactors, in particular the high temperature pebble bed gas reactor, space nuclear power systems, improved technology neutral licensing standards for advanced reactors and operations and management issues of existing nuclear power plants. Dr. Kadak's teaching responsibilities are focused on student design courses and senior nuclear engineering systems courses. Kadak supervises research on the design, safety, proliferation, fuel performance, waste disposal concerns and economics of the pebble bed reactor. Dr. Kadak has served as Chairman of the Undergraduate Committee working on curriculum development and recruitment. Dr. Kadak served on the Gas Reactor working group for the Generation IV Roadmap developed by DOE.

Andrew C. Kadak is also President of Kadak Associates, a specialty consulting firm he recently established after 18 years of experience at Yankee Atomic Electric Company. At Yankee, Kadak was President and Chief Executive Officer. In this capacity, he was responsible for overseeing all Yankee operations, including the decommissioning of the Yankee plant in Rowe, Massachusetts and engineering, licensing, environmental and operational support to all eight nuclear plants in New England and many other national and international clients.

Dr. Kadak's expertise ranges from day to day operations of nuclear plants to senior executive management. In the past he has lead Yankee Atomic in license renewal of operating reactors, systematic evaluation of older plants to allow them to demonstrate compliance to new regulations, financial rate proceedings to assure adequate capital for safe operation, innovative fuel purchase agreements, high level nuclear waste disposal and storage solutions. His technical background has allowed him to actively direct the Yankee strategy dealing with reactor vessel embrittlement, boiling water reactor pipe replacements and how to manage aging of nuclear plants. At Yankee he managed the economic analysis of the value of continued operation of the Rowe plant. He presently consults on decommissioning of nuclear plants and has served on safety review boards of nuclear utilities.

Dr. Kadak was President of the American Nuclear Society in 1999/2000. He is currently the vice chair of the International Nuclear Societies Council. He has served as a board and executive committee member of the Nuclear Energy Institute and the industry's Advisory Committee on High Level Waste. He has served as a member of the National Association of Regulatory Utility Commissioners special panel on high level nuclear waste and the Aspen Institute's "Dialogue on Nuclear Waste Disposal". In 1995, he was a member of the Advisory Committee on External Regulation of Department of Energy Nuclear Safety. He has also conducted several audits of nuclear companies to assess management and served as chairman of a panel providing suggestions to the DOE's Nevada Test Site as to how to make their operations more like commercial industries. In 2005, Dr. Kadak was named by President Bush to serve on the US Nuclear Waste Technical Review Board. Dr. Kadak has made more than 50 lectures and speeches on topics related to the technical and business aspects of nuclear power.